This Month’s Highlights

UP FRONT MATTERS

Editorials

1273 Glomerular Homeostasis Requires a Match between Podocyte Mass and Metabolic Load
Jeffrey B. Kopp
• See related article by Fukuda et al. (pp. 1351–1363).

1275 Dying Cells and Extracellular Histones in AKI: Beyond a NET Effect?
Diane L. Rosin and Mark D. Okusa
• See related article by Allam et al. (pp. 1375–1388).

1277 Phosphate Binders in CKD: Bad News or Good News?
Tilman B. Drüeke and Ziad A. Massy
• See related article by Block et al. (pp. 1407–1415).

1280 Rituximab in Membranous Nephropathy: Is It a First-Line Treatment?
Gerald B. Appel
• See related article by Ruggenenti et al. (pp. 1416–1425).

Special Articles

1283 2011 Homer Smith Award: To Serve and Protect: Classic and Novel Roles for Na+,K+-Adenosine Triphosphatase
Anita Aperia

1299 Mechanisms of Renal Disease in β-Thalassemia
Khaled M. Musallam and Ali T. Taher

Science in Renal Medicine

1303 IL-2/IL-2Ab Complexes Induce Regulatory T Cell Expansion and Protect against Proteinuric CKD
Tania Polhill, Geoff Yu Zhang, Min Hu, Andrew Sawyer, Jimmy Jianheng Zhou, Mitsu Saito, Kyle E. Webster, Ya Wang, Yiping Wang, Shane T. Grey, Jonathan Sprent, David C.H. Harris, Stephen I. Alexander, and Yuan Min Wang

BRIEF COMMUNICATION

1309 c-Met and NF-κB–Dependent Overexpression of Wnt7a and -7b and Pax2 Promotes Cystogenesis in Polycystic Kidney Disease
Shan Qin, Mary Taglienti, Lei Cai, Jing Zhou, and Jordan A. Kreidberg

BASIC RESEARCH

1319 Deficits in Sialylation Impair Podocyte Maturation

1329 Tissue Plasminogen Activator Activates NF-κB through a Pathway Involving Annexin A2/CD11b and Integrin-Linked Kinase
Ling Lin, Chuanyue Wu, and Kebin Hu

1339 Loss of the Endothelial Glycocalyx Links Albuminuria and Vascular Dysfunction
Andrew H.J. Salmon, Joanne K. Ferguson, James L. Burford, Haykanush Gevorgyan, Daisuke Nakano, Steven J. Harper, David O. Bates, and Janos Peti-Peterdi

Red star ★ indicates articles that are features in This Month’s Highlights.
Growth-Dependent Podocyte Failure Causes Glomerulosclerosis
Akihiro Fukuda, Mahboob A. Chowdhury, Madhusudan P. Venkatareddy, Su Q. Wang, Ryuozo Nishizono, Tsukasa Suzuki, Larysa T. Wickman, Jocelyn E. Wiggins, Timothy Muchayi, Diane Finger, Kerby A. Shedden, Ken Inoki, and Roger C. Wiggins
* See related editorial by Kopp (pp. 1273–1275).

Development of a Model of Early-Onset IgA Nephropathy
Keiko Okazaki, Yusuke Suzuki, Mareki Otsuji, Hitoshi Suzuki, Masao Kihara, Tadahiro Kajiyama, Azusa Hashimoto, Hiroyuki Nishimura, Ruhbell Brown, Stacy Hall, Jan Novak, Shozo Izui, Sachiko Hirose, and Yasuhiro Tomino

Histones from Dying Renal Cells Aggravate Kidney Injury via TLR2 and TLR4
Ramanjaneyulu Allam, Christina Rebecca Scherbaum, Murthy Narayana Darisipudi, Shrikant R. Mulay, Holger Hägele, Julia Lichtnekert, Jan Henrik Hagemann, Khader Valli Rupanagudi, Mi Ryu, Claudia Schwarzenberger, Bernd Hohenstein, Christian Hugo, Bernd Uhl, Christoph A. Reichel, Fritz Krombach, Marc Monestier, Helen Liapis, Kristin Moreth, Liliana Schaefer, and Hans-Joachim Anders
* See related editorial by Rosin and Okusa (pp. 1275–1277).

Off-Pump versus On-Pump Coronary Artery Bypass Grafting Outcomes Stratified by Preoperative Renal Function
Lakhmir S. Chawla, Yue Zhao, Fredrick C. Lough, Elizabeth Schroeder, Michael G. Seneff, and J. Matthew Brennan

Recent Peritonitis Associates with Mortality among Patients Treated with Peritoneal Dialysis
Neil Boudville, Anna Kemp, Philip Clayton, Wai Lim, Sunil V. Badve, Carmel M. Hawley, Stephen P. McDonald, Kathryn J. Wiggins, Kym M. Bannister, Fiona G. Brown, and David W. Johnson

Effects of Phosphate Binders in Moderate CKD
Geoffrey A. Block, David C. Wheeler, Martha S. Persky, Bryan Kestenbaum, Markus Ketteler, David M. Spiegel, Matthew A. Allison, John Asplin, Gerard Smits, Andrew N. Hoofnagle, Laura Kooienga, Ravi Thadhani, Michael Mannstadt, Myles Wolf, and Glenn M. Chertow
* See related editorial by Drüeke and Massy (pp. 1277–1280).

Rituximab in Idiopathic Membranous Nephropathy
Piero Ruggenenti, Paolo Cravedi, Antonietta Chianca, Annalisa Perna, Barbara Ruggiero, Flavio Gaspari, Alessandro Rambaldi, Maddalena Marasà, and Giuseppe Remuzzi
* See related editorial by Appel (pp. 1280–1282).

Effect of Risedronate on Bone in Renal Transplant Recipients
Maria Coco, James Pullman, Hillel W. Cohen, Sally Lee, Craig Shapiro, Clemencia Solorzano, Stuart Greenstein, and Daniel Glicklich